

CURRICULUM VITAE

Andrea F. Jones

Current Title: Postdoctoral Fellow, Department of Physiology

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Education:

Undergraduate: Indiana University, South Bend, IN (2006 - 2010)
BA Psychology, 2010

Graduate: Tulane University School of Medicine, New Orleans, LA (2011 - 2016)
Interdisciplinary PhD in Aging Studies, 2016

Postdoctoral: Indiana University School of Medicine, Indianapolis, IN (2017-2021)
Department of Pharmacology & Toxicology
Louisiana State University Health Sciences Center, New Orleans, LA
(2017-2021)
Department of Physiology

Academic, Professional, and Research Appointments:

2021-Present	Department of Physiology LSUHSC New Orleans, LA	Postdoctoral Fellow
2017-2021	Department of Pharmacology & Toxicology Stark Neurosciences Research Institute Indiana University School of Medicine Indianapolis, IN	Postdoctoral Appointee
2009-2011	Psychology Department Indiana University South Bend, IN	Research Assistant Cognitive Aging Laboratory & Suicide Research Team
2010	Psychology Department Indiana University South Bend, IN	Teaching Assistant

Membership in Professional Organizations:

2022 – present	United States Association for the Study of Pain <ul style="list-style-type: none">• 2022: Basic Science Special Interest Group• 2022: Sex Differences In Pain and Analgesia Special Interest Group
2021 – present	American Physiological Society
2021 – present	Research Society on Alcoholism
2021 – present	Greater New Orleans Society for Neuroscience Chapter of Society for Neuroscience
2017 – present	International Association for the Study of Pain <ul style="list-style-type: none">• 2022: Neuropathic Pain Special Interest Group
2017 – 2021	Greater Indiana Society for Neuroscience Chapter of Society for Neuroscience
2012 – 2017	Society for Neuroscience
2012 – 2016	American Gerontological Society

Awards and Honors:

2019	Postdoctoral Poster Award Greater Indiana Society for Neuroscience
2010	Haines Research Award, IU South Bend
2010	Excellence in Service to Psychology Award, IU South Bend
2019	Excellence in Psychology Award, IU South Bend

TEACHING EXPERIENCE AND RESPONSIBILITIES

Formal Course Responsibilities:

Undergraduate Courses Taught

Semester	Course Title	Number of Students
Indiana University South Bend		
Fall 2009	Smart Learning Strategies	~6
Spring 2010	Smart Learning Strategies	~6
Spring 2011	Smart Learning Strategies	~6

Guest Lectures

Semester	Course	Topic
Indiana University South Bend		
Spring 2009	Introductory Psychology	Memory
Spring 2010	Introductory Psychology	Memory
Fall 2010	Abnormal Psychology	ADHD
Fall 2009	Methods of Experimental Psychology	Survey Research

Teaching Assistantships

Year(s)	Course	Number of Students
Indiana University South Bend		
Spring 2010	Introductory Psychology (online course)	~50
Spring 2010	Social Justice	~20
Fall 2009	Methods of Experimental Psychology	~15
Fall 2009	Social Justice	~20
Spring 2009	Introductory Psychology	~50
Fall 2008	Introductory Psychology	~50

Undergraduate, Graduate, and Medical Students Trained:

Graduate:

2021 - 2022	Brooke Prysi- Neuroscience M.S. student at Tulane University
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- 2018 - 2021 Shudi Zhou- Medical Neuroscience PhD candidate at IUSM
- 2020 - 2021 Yuexi Yin- Medical Neuroscience PhD student at IUSM
- 2014 - 2016 Tyler Simons- Neuroscience M.S. student at Tulane University; *Currently*: Medical student at LSU
- 2014 - 2016 Manueal Gaviria- Neuroscience M.S. student at Tulane University; *Currently*: Orthopaedics Medical Resident at San Antonio Military Medical Center

Undergraduate:

- 2022- Queenie Wang- Senior Neuroscience Major at Tulane University
- 2022 Isaiah Moore- Senior Neuroscience Major at Xavier University
- 2014 - 2016 Amy Lucas- Tulane University; *Currently*: Neuroscience PhD student at Wake Forest
- 2014 - 2016 Samuel Lipman- Tulane University B.S. M.S. Neuroscience; *Currently*: Associate at Avalere Health
- 2014 - 2016 Natalie Pilgeram- Tulane University B.S. Neuroscience and Cognitive Studies; *Currently*: Neuroscience and Animal Behavior PhD student at Emory University
- 2014 - 2016 Silas Buck- Tulane University B.S. Neuroscience; *Currently*: Neuroscience PhD student at University of Pittsburgh
- 2012 - 2015 Hannah Gilder- Tulane Univeristy B.S. Neuroscience; *Currently*: Neurosurgical Resident at Mayo Clinic

Additional Mentoring:

High School Students:

- 2020 - 2021 Kevin Chen- Indiana University School of Medicine Stark Neurosciences Research Institute Project: Sex-differences in cortical SOM and PV cell excitability in chronic pain

RESEARCH AND SCHOLARSHIP

Grants and Contracts:

ACTIVE:

T32 AA007577 (Molina) 09/01/2009–11/30/2019
 NIH/NIAAA \$402,449/year
Biomedical Alcohol Research Training Program

The goal is to educate and train pre and postdoctoral fellows for careers as independent scientists in the field of alcohol research.

Role: Postdoctoral Trainee, July 2018-November 2019

COMPLETED

Conference Fund 05/2020
 Office of Acedemic Affairs \$5,000

Stark Summer Science Symposium
 Role: Symposium coordinator

SMART Grant 2010
 Indiana University South Bend \$1,500

Interactions between exposure to, and knowledge of suicide

The goal was to investigate the interactions between experience with suicide and knowledge of suicide in a college sample.

Role: Principal Investigator

SUBMITTED (Not Funded):

F32 11/01/2022-10/31/2024
 NIH/NINDS \$168,346

Targeting cortical somatostatin signaling for the treatment of chronic neuropathic pain

This project tests the hypothesis that somatostatin peptide regulates parvalbumin+ cell excitability in chronic neuropathic pain.

Role: Principal Investigator

Resubmitted:

F32

06/2023-05/2025

NIH/NINDS

\$168,346

Targeting cortical somatostatin signaling for the treatment of chronic neuropathic pain

This project tests the hypothesis that somatostatin peptide regulates parvalbumin+ cell excitability in chronic neuropathic pain.

Role: Principal Investigator

Publications:

Journal Articles (Refereed)

1. **Jones, A.F.**, and Sheets, P.L. (2020). Sex-specific disruption of distinct mPFC inhibitory neurons in spared-nerve injury model of neuropathic pain. *Cell Reports*, 31(10).

Peer-Reviewed Abstracts (poster presentation unless noted; *mentee presenter):

1. **Jones, A.F.**, & Sheets, P.L. (2019). Somatostatin-expressing and Parvalbumin-expressing GABAergic neurons in the medial prefrontal cortex are differentially altered in a mouse model of chronic pain. Greater Indiana Society for Neuroscience Symposium, Indianapolis, IN.
2. **Jones, A.F.**, & Sheets, P.L. (2018). Neuropathic pain has differential effects on intrinsic excitability of Somatostatin-expressing and Parvalbumin-expressing GABAergic neurons in the medial prefrontal cortex. 17th World Congress on Pain, Boston, MA.
3. **Jones, A.F.**, & Sheets, P.L. (2018). Sensitization of layer 5 corticostriatal neurons in an acute incision pain model. Greater Indiana Society for Neuroscience Symposium, Bloomington, IN.
4. **Jones, A. F.**, Leach, A.C., Gaviria, M. & Colombo, P.J. (2015). NFκBp65 in the dorsomedial striatum is associated with spatial memory formation across the lifespan. 68th Gerontological Society of America Conference, Orlando, FL.
5. **Jones, A.F.**, Pilgeram, N.R., & Colombo, P.J. (2015). Increased basal levels of NFκBp65 in the nucleus of hippocampal cells is related to maintenance of hippocampal-dependent spatial memory in aged rats. 45th Society for Neuroscience Conference, Chicago, IL.
6. *Leach, A., **Jones, A.F.** & Colombo, P.J. (2015). NFκB in the striatum is related to performance on a spatial memory task in aged, but not middle-aged rats. Tulane Undergraduate Research Day.
7. ***Jones, A.F.**, Pilgeram, N.R., Gaviria, M. & Colombo, P.J. (2015). Increased basal levels of NFκBp65 in the nucleus of hippocampal cells are related to maintenance of hippocampal-dependent spatial memory in aged rats. Tulane/LSU Neuroscience Symposium.
8. Manning, L., Costello, M.C., Ratiwicz, S., **Jones, A.**, & DeBrule, D. (2013). Narrating experience: Qualitative and quantitative factors in the relationship between aging and wisdom. 66th Gerontological Society of American Conference, New Orleans, LA. Oral Presentation by 1st author.
9. Costello, M.C., Manning, L., Hillaker, A., Ratiwicz, S., Anastasio, M., **Jones, A.**, & DeBrule, D. (2012). Narrating wisdom: Exploring the link between generalized slowing and wisdom in aging. 65th Gerontological Society of America Conference, San Diego, CA. Oral Presentation by 1st author.
10. **Jones, A.**, Rice, J., O'Malley, K. & Gustat, J. (2012). Consumption of fresh fruit and vegetables among older adults in New Orleans. 140th American Public Health Association Conference, San Francisco, CA. Oral Presentation by 1st author.
11. **Jones, A.**, Drapeau, C., & DeBrule, D. (2011). Interactions between exposure to, attitudes toward and knowledge of suicide. 44th American Association of Suicidology Conference, Portland, OR.

Conference Participation:

1. Oral presenter. *Symptoms of ADHD, coping skills and reasons for living*. 44th American Association of Suicidology conference, Portland, OR. (2011)
2. Abstract Referee. Biological Sciences Division, 69th Gerontological Society of America Conference. New Orleans, LA. (2016).

Invited Seminars and Talks:

1. "Targeting cortical somatostatin signaling for the treatment of chronic neuropathic pain." Greater New Orleans Society for Neuroscience Trainee Seminar Series, Virtual, 2022.
2. "Cell-type and sex-specific alterations to medial prefrontal inhibitory interneurons in a mouse model of chronic neuropathic pain. Greater Indiana Society for Neuroscience Conference, Virtual, 2021
3. "Non-human models of Aging." Psychology Department, Indiana University, South Bend, IN, 2014.

Continuing professional education, refresher courses, & workshops at professional meetings/symposia:

1. Perspectives in Alcohol Research, Louisiana State University Health Sciences Center, 2021-present.

For one hour each week during long semesters, trainees and faculty members in the alcohol research field discuss relevant topics including recently published alcohol-related literature, model systems and techniques, and research ethics. Alcohol-related seminars are incorporated. This elective is discussion-based and trainees lead the majority of sessions. 15 hours per semester, Instructors: Robert Siggins, PhD, Stephanie Primeaux, PhD.

Journal Activity:

2022	Co-reviewer, <i>eNeuro</i>
2022	Co-reviewer, <i>Neuropharmacology</i>
2021	Co-reviewer, <i>Neuropsychopharmacology</i> (2)
2020	Co-reviewer, <i>The Journal of Pain</i>
2016	Reviewer, <i>Scandinavian Journal of Rheumatology</i>
2015-2016	Co-reviewer, <i>Hippocampus</i>
2015-2016	Co-reviewer, <i>Neurobiology of Aging</i>

SERVICE ACTIVITIES

University/Institutional Service:

2022	<u>Poster Judge</u> , Medical Student Research Symposium, LSUHSC, New Orleans, LA
2021-Present	<u>Committee Member</u> , ADACE Postdoctoral Fellow Seminar Series, LSUHSC, New Orleans, LA.
2022	<u>Poster Judge</u> , High School/Undergraduate Summer Research Virtual Poster Symposium, LSUHSC, New Orleans, LA.
2021	<u>Poster Judge</u> , High School/Undergraduate Summer Research Virtual Poster Symposium, LSUHSC, New Orleans, LA.
2020	<u>Poster Judge</u> , Summer Undergraduate Science Symposium, Indiana University Purdue University, Indianapolis, IN.
2019	<u>Poster Judge</u> , Summer Undergraduate Science Symposium, Indiana University Purdue University, Indianapolis, IN.
2018-2020	<u>Founding Member & Seminar Series Liaison</u> , Stark Neurosciences Research Institute Postdoctoral Association, Indiana University School of Medicine, Indianapolis, IN.
2010	<u>Senior Editor</u> , Indiana University South Bend Undergraduate Research Journal, South Bend, IN.

2009-2010 Treasurer, Psi Chi, Indiana University South Bend Chapter, South Bend, IN.
2009 Editor, Indiana University South Bend Undergraduate Research Journal, South Bend, IN.

Regional/National Service:

Community Service and Outreach Activities:

2022 Volunteer Instructor, Course: The Amazing Plastic Brain; People Program, New Orleans, LA
2022 Committee Member, Greater New Orleans Society for Neuroscience Outreach Committee,
New Orleans, LA
2019 Presenter, Women in STEM day, Indianapolis Public School System, Indianapolis, IN
2012 Volunteer Instructor, Course: Successful Aging, People Program, New Orleans, LA
2012 Volunteer Co-instructor, Course: Aging in the Arts, People Program, New Orleans, LA